Notice of Allowability	Application No.	Applicant(s)		
	10/080,525	SHEKTER, JONATHAN		
	Examiner	Art Unit		
	Peter-Anthony Pappas	2628		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. X This communication is responsive to 12/19/07.				
2. ⊠ The allowed claim(s) is/are <u>6-60</u> .				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No		tion from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the			back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT in the second of the second of			Note the	
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. Notice of Informal Page	stant Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •		
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Date	view Summary (* 105415); per No./Mail Date miner's Amendment/Comment		
Paper No./Mail Date	_			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	wance	
	9. Other			
(1.6.)				
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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 6-60 are allowed.
- 2. In regard to claims 6-33, 35, 36, 38, 40-60 the prior art of record fails to teach or suggest the limitations of the respective claims when considered as a whole, specifically wherein each pixel fragment is configured to store an object primitive's local color, depth, coverage, transfer mode, rate of change of depth with time and surface geometry information. It is noted that term "coverage" is read in light of the specification (p. 6, line 29; p. 7, lines 1-13).
- 3. In regard to claim 34 the prior art of record fails to teach or suggest the limitations of the respective claims when considered as a whole, specifically using the depth and surface geometry information for the one or more 3D objects to extend, on an output buffer pixel basis, the surfaces of the one or more 3D objects into an extended output buffer pixel; determining whether the extended surfaces of two or more of the 3D objects intersect over the extended output buffer pixel; and blending the colors of the one or more 3D objects with the color of the output buffer pixel as if two or more of the 3D objects intersected over the output buffer pixel whenever the extended surfaces of two or more of the 3D objects intersect over the extended output buffer pixel. It is noted that term "coverage" is read in light of the specification (p. 6, line 29; p. 7, lines 1-13).
- 4. In regard to claim 37 the prior art of record fails to teach or suggest the limitations of the respective claims when considered as a whole, specifically determining a blend color for each uniquely layered time period by blending in depth sorted order the color of

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each of the one or more 3D objects with the color of the output buffer pixel according to each of the one or more 3D objects' transfer modes. It is noted that term "coverage" is read in light of the specification (p. 6, line 29; p. 7, lines 1-13).

- 5. In regard to claim 39 the prior art of record fails to teach or suggest the limitations of the respective claims when considered as a whole, specifically determining the number and volume of each uniquely layered space-time region, wherein the volume of a uniquely layered space-time region is calculated for the portion of the output buffer pixel and the portion of the shutter interval occupied by the space-time region. It is noted that term "coverage" is read in light of the specification (p. 6, line 29; p. 7, lines 1-13).
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter-Anthony Pappas whose telephone number is 571-272-7646. The examiner can normally be reached on M-F 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached on 571-272-7782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter-Anthony Pappas Examiner Art Unit 2628

PP

VULKA CHAUHAN
SUPERVISORY PATENT EXAMINER